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	Applicati n N .	Applicant(s)	
Notice of Allowability	10/085,798	BERKEY ET AL.	
	Examin r	Art Unit	
	Michelle R. Connelly-Cushwa	2874	
The MAILING DATE of this c mmunication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308.	plication. If not include will be mailed in due	ed course THIS
1. This communication is responsive to <u>Applicant's Amendment</u>	ent filed May 13, 2004.		
2. The allowed claim(s) is/are <u>1-17,20,22 and 32-47</u> .			
3. \boxtimes The drawings filed on $\underline{09}$ July 2002 are accepted by the Ex	aminer.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's 	been received. been received in Application No cuments have been received in this in of this communication to file a reply a ENT of this application. itted. Note the attached EXAMINER' as reason(s) why the oath or declara at be submitted. on's Patent Drawing Review (PTO-	national stage applical complying with the red 'S AMENDMENT or Nation is deficient.	quirements
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. ach sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir	nas in the front (not the	back) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL n	nust be submitted. I	Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P. 6. Interview Summary Paper No./Mail Dat 8), 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	wance

DETAILED ACTION

Response to Amendment

Applicant's Amendment filed May 13, 2004 has been fully considered and entered.

Allowable Subject Matter

Claims 1-17, 20, 22 and 32-47 are allowed.

The following is a statement of reasons for allowance: The prior art cited on the PTO-892 forms attached to Office actions mailed on June 9, 2003 and March 1, 2004 is the most relevant prior art known. However the invention of claims 1-17, 20, 22 and 32-47 distinguishes over the prior art of record for the following reasons.

Regarding claims 1-17 and 32-38; the claims are allowable for the reasons stated in the Office Action mailed March 1, 2004.

Regarding claims 20 and 39; the claims are allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 39, wherein at the operating wavelength each mode has a group time delay and all of the group time delays are all negative, each of the group time delays being referenced relative to a lowest order node (LP₀₁ mode) associated with the fiber in combination with the other limitations of claim 39.

Regarding claims 22 and 40; the claims are allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 40, wherein the fiber is configured for

multimode operation at a wavelength less than 1300 nm and single mode operation at a wavelength of at least approximately 1300 nm in combination with the other limitations of claim 40. Claim 22 depends from claim 40.

Regarding claim 41; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 41, wherein the fiber is configured to have a bandwidth of at lest approximately 0.6 GHz.km at 850 nm in combination with the other limitations of claim 41.

Regarding claim 42; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 42, wherein the core has a diameter in the range of approximately 6.0 to approximately 16.0 micrometers and a maximum index difference between the core and the cladding is in the range of approximately 0.3 to approximately 0.5% in combination with the other limitations of claim 42.

Regarding claim 43; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 43, wherein the length of the optical fiber is in the range of approximately 10-20 m, an absolute value of the difference between the operating wavelength and the peak bandwidth wavelength is in the range of approximately 80-150 nm, and the bandwidth is 0.6-1.2 GHz.km at the operating wavelength in combination with the other limitations of claim 43.

Regarding claim 44; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 44, wherein the length of the optical fiber is in the range of approximately 20-100 m, an absolute value of the difference between the operating wavelength and the peak bandwidth wavelength is in the range of approximately 12-80 nm, and the bandwidth is 1.2-7 GHz.km at the operating wavelength in combination with the other limitations of claim 44.

Regarding claim 45; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 45, wherein the length of the optical fiber is in the range of approximately 100-1000 m, an absolute value of the difference between the operating wavelength and the peak bandwidth wavelength is in the range of approximately 2-12 nm, and the bandwidth is 7-13 GHz.km at the operating wavelength in combination with the other limitations of claim 45.

Regarding claim 46 and 47; the claim is allowable over the prior art of record because none of the references either alone or in combination disclose or render obvious an optical fiber as defined in claim 46, wherein the length of the optical fiber is in greater than 1000 m, an absolute value of the difference between the operating wavelength and the peak bandwidth wavelength is greater than 0 and less than approximately 2 nm, and the bandwidth is greater than 3 GHz.km at the operating wavelength in combination with the other limitations of claim 46. Claim 47 depends from claim 46.

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Hence, there is no reason or motivation for one of ordinary skill in the art to use

the prior art of record to make the invention of claims 1-17, 20, 22 and 32-47.

Conclusion

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning the merits of this communication should be directed to

Examiner Michelle R. Connelly-Cushwa at telephone number (571) 272-2345. The

examiner can normally be reached 9:00 AM to 7:00 PM, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rodney B. Bovernick can be reached on (571) 272-2344. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

Any inquiry of a general or clerical nature should be directed to the Technology

Center 2800 receptionist at telephone number (571) 272-1562.

Michelle R. Connelly-Cushwa

Patent Examiner June 3, 2004

AKM ENAYET ULLAH PRIMARY EXAMINER